



**Quick Installation Guide** 



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# **Package Contents**

- TEW-651BR
- CD-ROM (User's Guide)
- Multi-Language Quick Installation Guide
- Network Cable (1.5m/4.9ft)
- Power Adapter (5V DC, 1A)

# **System Requirements**

- A computer with a wired or wireless network adapter properly installed (Note: It is recommended that you configure the Wireless Router from a wired computer)
- Web Browser: Internet Explorer (6.0 or higher)
- Broadband Internet
- Installed Cable or DSL Modem.

# Collect Internet Service Provider (ISP) Information

Please verify your Internet broadband connection type with your ISP and ensure you have all the information for one of the following connection types:

1. Obtain	IP Address	Automatically	y (	DHCP
-----------	------------	---------------	-----	------

Host Name (Optional)
Clone Mac Address (Optional)

2.	Fixed	IΡ	address	
			MAN ID	A -I -I-

WAN IP Address: (e.g. 215.24.24.129
WAN Subnet Mask:
WAN Gateway IP Address:
DNS Server Address 1:
DNS Server Address 2:

### 3. PPPoE to obtain IP automatically

User Name:	
Password:	
Verify Password:	

Type (Dynamic IP or Static IP)

Type (Dynamic IP or Static IP)

### 4. PPPoE with a fixed IP address

User Name:	
Password:	_
Verify Password:	
IP Address:	(e.g. 215.24.24.129)

#### 5. PPTP or Russian PPTP

Type (Dynamic ii oi otalic ii )	
My IP Address:	(e.g. 215.24.24.129)
Subnet Mask:	
Gateway:	
Server IP:	
PPTP Account:	
PPTP Password:	
Retype Password:	

#### 6. L2TP or Russia L2TP

My IP Address: (e.g. 215.24.24.129)
Subnet Mask:
Gateway:
Server IP:
L2TP Account:
L2TP Password:
Retype Password:

# 7. Russia PPPoE

Type (Dynamic IP or Static IP)		
User Name:		
Password:	_	
Verify Password:		
IP Address:		(e.g. 215.24.24.129)

<u>Note</u>: Gather all information related to your Internet Connection before you start. If necessary, contact your Internet Service Provider (ISP).

 Verify that you have an Internet connection when connecting your computer directly to the Cable or DSL modem. Open your browser (e.g. Internet Explorer) and type in a URL (e.g. http://www.trendnet.com) in the address bar.



- 2. Power off your cable or DSL modem.
- 3. Disconnect the network cable from your Cable or DSL modem and your computer.
- Connect one end of a network cable to one of the TEW-651BR's LAN ports. Connect the other end of the cable to the computer's network port.
- Connect one end of a network cable to the TEW-651BR's WAN port. Connect the other end of the cable to your modem's network port.



Connect the Power Adapter to the wireless router and then to a power outlet. Push the power button to the "On" position.



Power on your cable or DSL modem. Wait until the LEDs indicate that modem is fully booted up. Consult with the modem User's Guide for more information.



 Verify that the following panel lights are on: Power (Green), Status (Green), LAN (Green), WAN and WLAN (Green). **Note:** It is recommended that you configure the Wireless Router from a wired computer.

 Open your web browser, type http://192.168.10.1 in the Address bar, and then press Enter.



**2.** Enter the User Name and Password and then click **Login**. By default:

User Name: admin Password: admin

Note: User name and Password are case sensitive.





The Wizard will automatically appear. Click Wizard if the Wizard does not automatically appear.



Enter a Password, verify the Password and then click Next. By default, the Password is admin.

#### Note:

- Setting a password prevents other users from accessing the TEW-651BR's configuration.
- 2.It is recommended that you enter a new password. If you decide to change this setting, please write down the new password.



LAN IP
Address

LAN Subnet

LAN Subne

LAN Subnet

LAN Subnet

LAN Subnet

LAN Subnet

LAN Subnet

LAN

Set Password

Verify

 $\textbf{6.} \ \mathsf{Select} \ \mathsf{your} \ \mathsf{Time} \ \mathsf{Zone} \ \mathsf{and} \ \mathsf{then} \ \mathsf{click} \ \textbf{Next}.$ 

- 7. Click **Next**. Note: In most cases, the default LAN & DHCP server settings are fine.
- Configure the settings based on information provided by your ISP. Follow the wizard instructions to complete the configuration.

Note: Each Internet Connection type may have different options.



9. Select Enable for Wireless LAN. Select Disable if you do not want any wireless computers or device to connect to this device.

10. Enter a unique SSID (Network Name). Do not use anything that would be identifying like "Smith Family Network". Choose something that you would easily identify when searching for available wireless networks.

### Note:

- To protect your network from any unauthorized access it is recommended to enable wireless encryption. Please refer to the User Guide on the User's Guide CD-ROM for information on setting up encryption on the wireless router.
- Once encryption is enabled on the router, each wireless computer and device must be configured with the same encryption key.



**15.** Open up your browser and enter in a URL (e.g. <u>www.trendnet.com</u>) to verify that you have Internet connection.



# Your configuration is now complete

For detailed information regarding the **TEW-651BR** configuration and advanced settings, please refer to User's Guide included on the Utility CD-ROM, or TRENDnet's website at <a href="http://www.trendnet.com">http://www.trendnet.com</a>.

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# **Troubleshooting**

- 1. I typed http://192.168.10.1 in my Internet Browser's Address Bar, but an error message says "The page cannot be displayed." How can I get into the TEW-651BR's web configuration page?
  - 1. Check your hardware settings again by following the instructions in Section 2.
  - 2. Make sure the LAN and WLAN lights are lit.
  - Make sure your Network adapter's TCP/IP settings are set to Obtain an IP address automatically (see the steps below).
  - 4. Press on the factory reset button for 15 seconds.

#### Windows 7

 Go into the Control Panel, click Network and Sharing Center, click Change Adapter Settings and then right-click the Local Area Connection icon and then click Properties.





Click Internet Protocol Version 4(TCP/IPv4) and then click Properties. Then click on Obtain an IP address automatically.

#### Windows Vista

 Go into the Control Panel, click Network and Internet, click Network and Sharing Center, click Manage Network Connections and then right-click the Local Area Connection icon and then click Properties.





Click Internet Protocol Version 4(TCP/IPv4) and then click Properties. Then click on Obtain an IP address automatically.

## Windows XP/2000

 Go into the Control Panel, double-click the Network Connections icon and then rightclick the Local Area Connection icon and then click Properties.





Click Internet Protocol (TCP/IP) and then click Properties. Then click on Obtain an IP address automatically.

# 2. I am not sure what type of Internet Account Type I have for my Cable/DSL connection. How do I find out?

Contact your Internet Service Provider's (ISP) support service for the correct information.

## 3. The Wizard does not appear. What should I do?

- 1. Click on Wizard on the left hand side.
- Near the top of the browser, "Pop-up blocked" message may appear. Right click on the message and select Always Allow Pop-ups from This Site.
- 3. Disable your browser's pop up blocker.

## 4. I went through the Wizard, but I can not get onto the Internet. What should I do?

- 1. Verify that you can get onto the Internet with a direct connection into your modem.
- Contact your ISP and verify all the information that you have in regards to your Internet connection settings is correct.
- 3. Power cycle your modem and router. Unplug the power to the modem and router. Wait 30 seconds, and then reconnect the power to the modem. Wait for the modem to fully boot up, and then reconnect the power to the router.

#### 5. I cannot make a wireless connection to the Router. What should I do?

- 1. Double check that the WLAN light on the Router is lit.
- Power cycle the TEW-651BR. Unplug the power to the TEW-651BR. Wait 15 seconds, then plug the power back in to the TEW-651BR.
- Contact the manufacturer of your wireless network adapter and make sure the wireless network adapter is configured with the proper SSID. The preset SSID is TRENDnet651.
- Encryption may be enabled on the Router. To verify whether or not wireless is enabled, login to the router configuration, click on Wireless.
- Please refer to the Wireless tips section if you continue to have wireless connectivity problems.

If you still encounter problems or have any questions regarding the **TEW-651BR**, please contact TRENDnet's Technical Support Department.

# Wireless Tips

The following are some general wireless tips to help minimize the impact of interference within an environment

## Assign your network a unique SSID

Do not use anything that would be identifying like "Smith Family Network". Choose something that you would easily identify when searching for available wireless networks.

#### Do not turn off the SSID broadcast

The SSID broadcast is intended to be on and turning it off can cause connectivity issues. The preferred method of securing a wireless network is to choose a strong form of encryption with a strong and varied encryption key.

Note: after setting up the SSID, encryption type and encryption key/passphrase, please make a note of them for future reference. You will need this information to connect your wireless computers to the wireless router/access point.

#### Change the channel

Most wireless access points and routers are defaulted to channel 6. If you have a site survey tool that will display the channels you can plan your channel selection around neighboring access points to minimize interference from them. If your site survey tool does not display the channel try using channels 1 or 11.

#### Change the channel bandwidth

If you are using an 802.11n router or access point you can also make the following changes. Change the channel bandwidth to 20/40MHz. This will provide the highest possible performance using an 802.11n device. Also, if using 802.11n you should be securing the network with WPA2 security.

Note: Due to Wi-Fi certification considerations if you choose WEP, WPA or WPA2-TKIP encryption this device may operate in legacy wireless mode (802.11b/g). You may not get 802.11n performance as these forms of encryption are not supported by the 802.11n specification.

# Avoid stacking hardware on top of each other to prevent overheating issues

Maintain enough free space around the hardware for good ventilation and airflow. There should also be plenty of free space around the antennas to allow the wireless signal to propagate. Please also make sure that the wireless hardware is not placed in any type of shelving or enclosures.

There are a number of other environmental factors that can impact the range of wireless devices.

 Adjust your wireless devices so that the signal is traveling in a straight path, rather than at an angle. The more material the signal has to pass through the more signal you will lose.

- Keep the number of obstructions to a minimum. Each obstruction can reduce the range of a wireless device. Position the wireless devices in a manner that will minimize the amount of obstructions between them.
- 3. Building materials can have a large impact on your wireless signal. In an indoor environment, try to position the wireless devices so that the signal passes through less dense material such as dry wall. Dense materials like metal, solid wood, glass or even furniture may block or degrade the signal.
- 4. Antenna orientation can also have a large impact on your wireless signal. Use the wireless adapter's site survey tool to determine the best antenna orientation for your wireless devices.
- 5. Interference from devices that produce RF (radio frequency) noise can also impact your signal. Position your wireless devices away from anything that generates RF noise, such as microwaves, HAM radios, Walkie-Talkies and baby monitors.
- 6. Any device operating on the 2.4GHz frequency will cause interference. Devices such as 2.4GHz cordless phones or other wireless remotes operating on the 2.4GHz frequency can potentially drop the wireless signal. Although the phone may not be in use, the base can still transmit wireless signals. Move the phone's base station as far away as possible from your wireless devices.

If you are still experiencing low or no signal consider repositioning the wireless devices or installing additional access points. The use of higher gain antennas may also provide the necessary coverage depending on the environment.

# **Declaration of Conformity**



#### Company Information:

Company Name:

TRENDnet, Inc.

Company Address: 20675 Manhattan Place Torrance, CA 90501 USA

#### **Product Information:**

Product Description:

150Mbps Wireless N Home Router

Model Number:

TEW-651BR

Brand name:

TRENDnet

#### Technical Standards:

EN 300 328 V1.7.1: 10-2006 EN 301 489-1 V1.8.1: 04-2008 EN 301 489-17 V2.1.1: 05-2009 EN 60950-1: 2006 + A11 : 2009

#### **Declaration:**

The product is herewith confirmed to comply with the requirements of Directive 999/5/EC of the Council (European Parliament) on the radio and telecommunications terminal equipment and Energyrelated products Directive 2009/125/EC.

I hereby declare that the products and devices mentioned above are consistent with the standards and provisions of the guidelines.

Sonny Su	Director of Technology
Full Name	Position / Title
November 4, 2010	Jan De
Date	Signature



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This equipment has been tested and found to comply with FCC and CE Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received. Including interference that may cause undesired operation.





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